

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re application of:	Confirmation No. 6636
<b>Christine Beswick et al.</b>	Atty. Docket: 010180.00031
Serial No.: 10/536,899	Group Art Unit: 1624
Filed: January 6, 2006	Examiner: Emily B. Bernhardt
For: Pyrazole Compounds	

**ACKNOWLEDGEMENT OF  
INFORMATION DISCLOSURE STATEMENT**

U.S. Patent and Trademark Office  
220 20<sup>th</sup> Street S., Customer Window, Mail Stop Issue Fee  
Crystal Plaza Two, Lobby, Room 1B03

Sir:

We have not received an acknowledge receipt of the Information Disclosure Statement filed in the above subject application on May 27, 2005. For the Examiner's convenience, a copy of the Information Disclosure Statement, the four sheets of the PTO-1449 and the date-stamped receipt card are attached hereto.

It is respectfully requested that the Examiner acknowledge consideration of these references by initialing next to each reference listed on the attached four sheets of the PTO-1449 and that a Supplemental Notice of Allowability be issued in this regard.

Respectfully submitted,

By: /Susan A. Wolfe/  
Susan A. Wolfe  
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Date: May 20, 2009

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PCT

RO/US BOX PCT

B&amp;W # 010150.00031

Atty/Sec SAW/mkn

Inspected By:

Date May 27, 2005

(Corresponding to U.S. Serial No.:

Filed:

(B&amp;W#

In re International Application of

BESWICK and

International Application No.

Pat 6132003/005501

Title

PYRAZOLE COMPOUNDS

The following has been received in the U.S. Receiving Office on the date stamped hereon:

☐ New PCT Application & Fee, including:☐ Transmittal Letter: 1 Sheet☐ Request: # of Sheets \_\_\_\_\_ Replacements ☐ YES ☐ NO☐ Fee Calculation Sheet: Original + 1 copy☐ Description: # of Shts \_\_\_\_\_ Replacements ☐ YES ☐ NO☐ Claims: # of Sheets \_\_\_\_\_ Replacements ☐ YES ☐ NO☐ Abstract: 1 Sheet \_\_\_\_\_ Replacement ☐ YES ☐ NO☐ Drawings: ☐ Informal ☐ Formal # of Sheets \_\_\_\_\_Replacements ☐ YES ☐ NO☐ Executed Power(s) of Attorney: # of POA(s) \_\_\_\_\_☐ Sequence Listing: # of Sheet(s) \_\_\_\_\_☐ Req. for Ext. of Time to Correct Defects until \_\_\_\_\_☐ Response to Invitation to Correct Defects \_\_\_\_\_☐ Chapter II Demand & Fee # of sheets in Demand \_\_\_\_\_☐ Article 19 Amendment \_\_\_\_\_☐ Response to Written Opinion \_\_\_\_\_☒ U.S. Nat'l Phase of PCT Application, including:☐ Specification: # of pages of description and claims \_\_\_\_\_☐ in English Translation☐ Drawings: ☐ Formal ☐ Informal

# of distinct sheets \_\_\_\_\_; Figs. \_\_\_\_\_

☐ Declaration/PoA: ☐ Executed ☐ Unexecuted☐ Assignment w/PTO Cover Sheet☐ Small Entity Declaration☒ IDS w/PTO 1449 ☐ References☒ Preliminary Amendment☐ IPER w/English Translation of Annex(es)☒ International Search Report (ISR) 21

ACCOUNT 19-0733 for \$ 1,250

R. D. S.

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B&amp;W REV. 10/00

(11)



PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	)	
	)	
Mandy Christine BESWICK et al	)	Group Art No. TBA
	)	
Serial No: TBA	)	Examiner: TBA
	)	
Filed: Herewith	)	Docket No. 010180.00031
For: PYRAZOLE COMPOUNDS		

**INFORMATION DISCLOSURE STATEMENT**

Commissioner of Patents  
U.S. Patent and Trademark Office  
Customer Service Window  
Randolph Building  
401 Dulany Street  
Alexandria, VA 22314

Sir:

Pursuant to 37 C.F.R. §1.56 and in compliance with 37 C.F.R. §1.97, Applicants submit herewith one Form PTO-1449 identifying information for consideration by the Examiner.

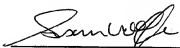
Copies of the cited documents were provided with the International Search Report for the corresponding PCT application.

If the Patent and Trademark Office determines that a fee is required, please charge our Deposit Account No. 19-0733.

Respectfully submitted,

**BANNER & WITCOFF, LTD.**

Date: 5/27/05

  
By: Susan A. Wolffe  
Registration No. 33,568

SAW/mhn

USPTO Form 1449 Patent and Trademark Office <b>INFORMATION DISCLOSURE</b> <b>CITATION</b> Sheet 1 of 4		Attorney Docket No. 010180.00031		Serial No. TBA		
Applicant(s): Mandy Christine BESWICK et al						
Filing Date: Herewith				Group: TBA		
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation YES NO
	WO 03 062206 A	31 July 2003	PCT			
	WO 01 79187 A	25 October 2001	PCT			
	WO 98 52940 A	26 November 1998	PCT			
	WO 97 01551 A	16 January 1997	PCT			
	96 03385	8 February 1996	PCT			
	Jp 63 253068 A	20 October 1988	JAPAN			
	WO 00 31063 A	2 June 2000	PCT			
	WO 03 055860 A	10 July 2003	PCT			
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>						
DATABASE CHEMCATS 'Online! AMERICAN CHEMICAL SOCIETY; retrieved from STN, XP002275488, RNs 512817-94-6, 512812-41-8, 512817-19-5, 512817-26-4, 494867-78-6						
DATABASE CHEMCATS 'Online! AMERICAN CHEMICAL SOCIETY; retrieved from STN, XP002275489 RNs 494867-81-1, 442643-27-8, 442642-90-2, 430450-02-5, 442643-55-2, 426252-69-9, 426246-04-7, 428478-82-4, 426242-81-1, 426241-82-9, 428480-97-1, 428479-84-9						
PATENT ABSTRACTS OF JAPAN vol.013, no. 061 (C-567), 10 February 1989						
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SAUSINS, A. ET AL: "Methods of synthesis of 4-(pyrazolyl)- and 4-(pyridyl)-5-oxo-1,4,5,7-tetrahydrofuro[3,4-b]pyridines" retrieved from STN, Database accession no. 124:202667 XI 002275490, RNs 154926-55-C, 174314-90-0, 174314-91-1, 174314-93-3, 174314-96-6, 174314-97-7, 174314-98-8 & KHHIMYA GETEROTSIKLICHESKIKH SOEDINENII (1995), (7), 966-72						
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EXAMINER				DATE CONSIDERED		

\*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 909. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

Attorney Docket No.  
 010180.00031

Serial No.  
 TBA

Applicant(s): Mandy Christine BESWICK et al

Filing Date: Herewith

Group: TBA

**U.S. PATENT DOCUMENTS**

Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE; COLUMBUS, OHIO, US; CEKAVICIUS, B ET AL: "Synthesis and hepatoprotective properties of 4-pyrazolyl-1, 4-dihydropyridines" retrieved from STN, Database accession no. 108:68683, XP002275493 abstract; RN 112758-37-9 & KHIMIKO-FARMATSEVTICHESKII ZHURNAL (1987), 21(8), 959-65,
	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; HOFFMANN, MICHAEL G. ET AL: "O-Glycosylimidates. 19. Reaction of glycosyltrichloroacetimidates with silylated C-nucleophiles" retrieved from STN, Database accession no. 104:51038, XP002275494 RNs 99701-82-3, 99701-81-2, 99701-83-4 & LIEBIGS ANNALEN DER CHEMIE (1985), (12), 2403-19
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	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; ARAKAWA, KIICHI ET AL: "Synthesis of 1-(3-phenylpyrazol-4-yl) beta-D-ribofuranoside, a C-nucleoside" retrieved from STN, Database accession no. 82:73382, XP002275496 RNs 54680-27-2, 54680-28-3, 54680-29-4, 54680-30-7 & CHEMISTRY LETTERS (1974), (11), 1305-8
	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; GARCIA-LOPEZ, M. T. ET AL: "Synthesis of heterocyclic C-glycosyl compounds by 1,3-dipolar cycloaddition of diazomethane to acetylenic-carbohydrate derivatives" retrieved from STN, Database accession no. 75:88530, XP002275497 RNs 34020-52-5, 34020-53-6 & JOURNAL OF HETEROCYCLIC CHEMISTRY (1971), 8(3), 525
	DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; TERENT'EV, P.B. ET AL: "Addition of diazomethane to beta-ethynylpyridines" retrieved from STN, Database accession no. 73:45406, XP002275498, RN 27509-32-6 & KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (1970), (4), 498-502

EXAMINER

DATE CONSIDERED

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

USPTO Form 1449 U.S. Department of Commerce Patent and Trademark Office <b>INFORMATION DISCLOSURE</b> <b>CITATION</b> Sheet 3 of 4		Attorney Docket No. 010180.00031		Serial No. TBA		
Applicant(s): Mandy Christine BESWICK et al						
Filing Date: Herewith					Group: TBA	
<b>U.S. PATENT DOCUMENTS</b>						
Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)
<b>FOREIGN PATENT DOCUMENTS</b>						
Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation
						YES NO
<b>OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)</b>						
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BORRACHERO-MOYA, PASTORA ET AL: "Synthesis of 4-(4,6-di-O-benzyl-2,3-dideoxy-.beta.-D-erythro-hex-2-enopyranosyl) pyrazoles from 3,4,6-tri-O-acetyl-D-glucal" retrieved from STN, Database accession no. 129:189545, XP002275499; RNs 211674-08-7, 211674-06-5, 211674-15-6 & CARBOHYDRATE RESEARCH (1998), 308(1-2), 181-190						
DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BARALDI, P.G.. ET AL: "Synthesis and cardiodepressant activity of dialkyl 1, 4-dihydro-2, 6-dimethyl-4-(pentatomic-heteroaryl)-3, 5-pyridinedicarboxylates, 2" retrieved from STN, Database accession no. 120:289435, XP002275500, RN 154926-87-1 & DRUG DESIGN AND DISCOVERY (1993), 10(4), 319-29						
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DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; BOBOWSKI, GEORGE.. ET AL: "4-Substituted-3-alkyl-3, 4-dihydro-2H-1, 3-benzoxazin-2-ones. IV. Keto-enol tautomerism of. Beta.-keto ester derivatives. Reaction of. Beta.-dicarbonyl compounds with diamines" retrieved from STN, Database accession no. 93:168205, XP002275504, RN 74834-76-4 & JOURNAL OF HETEROCYCLIC CHEMISTRY (1980), 17(3), 519-28						
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Applicant(s): Mandy Christine BESWICK et al

Filing Date: Herewith

Group: TBA

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Examiner Initial	Patent No.	Date	Name	Class	Subclass	Filing Date (if appropriate)

**FOREIGN PATENT DOCUMENTS**

Examiner Initial	Document No.	Date	Country	Class	Subclass	Translation	
						YES	NO

**OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)**

	BANNIER A. ET AL: "DETERMINATION OF A NEW ANTI-INFLAMMATORY AGENT, 1-ISOBUTYL-3, 4-DIPHENYLPYRAZOLE-5-ACETIC ACID, BY HIGH-PERFORMANCE LIQUID CHROMATOGRAPHY" JOURNAL OF PHYSIOLOGY, XX, XX, vol. 227, no. 1, 8 January 1982, pages 213-218, XP009008354; ISSN: 0022-3751

EXAMINER

DATE CONSIDERED

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# INTERNATIONAL SEARCH REPORT

Int. Appl. No.  
PCT/GB 03/05501

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07D231/38 C07D405/12 C07D401/12 C07D413/12 C07D403/12  
C07D417/12 C07D409/12 C07D403/04 C07D405/10 C07D401/04  
A61K31/415 //(C07D405/12, 307:00, 231:00), (C07D401/12, 231:00,

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ, CHEM ABS Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P	DATABASE CHEMCATS 'Online! AMERICAN CHEMICAL SOCIETY; retrieved from STN XP002275488 RNs 512817-94-6, 512812-41-8, 512817-19-5, 512817-26-4, 494867-78-6 -----	1,2
X,P	WO 03 062206 A (FOSTER RICHARD ;SMITH JULIAN (GB); ARENA PHARMACEUTICALS INC (US);) 31 July 2003 (2003-07-31) examples 87-89,95 -----	1,2,8,23
X	WO 01 79187 A (SHELTON EMMA JANE ;SPENCER JEFFREY R (US); CAI SUI XIONG (US); CYT) 25 October 2001 (2001-10-25) page 74; example 5 ----- -/-	1,2,8,23

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
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- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

"I" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

30 March 2004

Date of mailing of the international search report

16/04/2004

Name and mailing address of the ISA

European Patent Office, P.O. Box 5318 Patentkan 2  
NL - 2203 HW Rijswijk  
Tel. (+31-70) 340-2040, Tlx 31 651 epo nl,  
Fax (+31-70) 340-3016

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Frelon, D



## INTERNATIONAL SEARCH REPORT

 International Application No.  
PCT/GB 03/05501

 A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 213:00

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 98 52940 A (ANANTANARAYAN ASHOK ;CRICH JOYCE ZUOWU (US); SELNESS SHAUN RAJ (US) 26 November 1998 (1998-11-26) page 756, line 226 - line 227; claim 69	1,2,8,23
X	WO 97 01551 A (FUJISAWA PHARMACEUTICAL CO ;AKAHANE ATSUSHI (JP); KURODA SATORU (J) 16 January 1997 (1997-01-16) examples 26,44	1,2,8,23
X	WO 96 03385 A (SEARLE & CO ;LEE LEN F (US); PENNING THOMAS D (US); KRAMER STEVEN) 8 February 1996 (1996-02-08) page 24, lines 25-27, page 26, lines 35-36, page 55, lines 14-15 and 25-26	1,2,8,23
	----- -/-	

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- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
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"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
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"Z" document member of the same patent family

Date of the actual completion of the international search

30 March 2004

Date of mailing of the international search report

Name and mailing address of the ISA

 European Patent Office, P.O. Box 5516 Patentpark 2  
 81 - 2280 LV Rijswijk  
 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
 Fax (+31-70) 340-3076

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Frelon, D

# INTERNATIONAL SEARCH REPORT

Int. Appl. No.  
PCT/GB 03/05501

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
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X	<p>DATABASE CHEMCATS 'Online! AMERICAN CHEMICAL SOCIETY; retrieved from STN XP002275489 RNS 494867-81-1, 442643-27-8, 442642-90-2, 430450-02-5, 442643-55-2, 426252-69-9, 426246-04-7, 428478-82-4, 426242-81-1, 426241-82-9, 428480-97-1, 428479-84-9</p>	1,2
X	<p>PATENT ABSTRACTS OF JAPAN vol. 013, no. 061 (C-567), 10 February 1989 (1989-02-10) -&amp; JP 63 253068 A (NIPPON NOHYAKU CO LTD), 20 October 1988 (1988-10-20) page 45, compound 84</p>	1,2,8,23
X	<p>DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SAUSINS, A. ET AL: "Methods of synthesis of 4-(pyrazolyl)- and 4-(pyridyl)-5-oxo-1,4,5,7- tetrahydrofuro[3,4-b]pyridines" retrieved from STN Database accession no. 124:202067 XP002275490 RNs 154926-86-0, 174314-90-0, 174314-91-1, 174314-93-3, 174314-96-6, 174314-97-7, 174314-98-8 &amp; KHIMIYA GETEROTSIKLICHESKIKH SOEDINENII (1995), (7), 966-72,</p>	1,2,8
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-/--

# INTERNATIONAL SEARCH REPORT

Int'l Application No  
PCT/GB 03/05501

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X	<p>DATABASE CA 'Online! CHEMICAL ABSTRACTS SERVICE, COLUMBUS, OHIO, US; SHANKER, M. S. S. ET AL: "A novel synthesis of pyrazolylchromone derivatives" retrieved from STN Database accession no. 116:128767 XP002275492 RN 139394-43-7 &amp; ASIAN JOURNAL OF CHEMISTRY (1992), 4(1), 166-70,</p>	1,2,8
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Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE CA 'Online!  CHEMICAL ABSTRACTS SERVICE, COLUMBUS,  OHIO, US;  ALONSO, G. ET AL: "Synthesis of pyrazole  C-nucleosides by 1,3-dipolar  cycloaddition"  retrieved from STN  Database accession no. 87:184819  XP002275495  RN 64559-22-4  &amp; ANALES DE QUIMICA (1968-1979) (1976),  72(11-12), 987-90,</p>	1,2,8
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Int'l. Application No.  
PCT/GB 03/05501

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International Application No.  
PCT/GB 03/05501

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# INTERNATIONAL SEARCH REPORT

International application No.  
PCT/GB 03/05501

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:  
Although claims 22, 26 and 27 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. ☒ Claims Nos.:  
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:  
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this International application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.



## FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

## Continuation of Box I.2

The presently claimed subject-matter relates to an extremely large number of possible compounds. Support within the meaning of Article 6 PCT and disclosure within the meaning of Article 5 PCT is to be found, however, for only a very small proportion of the compounds claimed. In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Consequently, the search has been carried out for those parts of the claims which appear to be supported and disclosed, namely those parts relating to the compounds as illustrated by the examples wherein Ar represents always a (optionally substituted) phenyl group directly linked to the pyrazole core.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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Int. Appl. No.  
PCT/BB 03/05501

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